the bottom support member 1112B. It should be noted that shown in FIG. 8 are a side support member 11111B and a top support member 11112B similar to those in the embodiments shown in FIGS. 3 to 5, with extending parts 11113B extending downwardly from bottom edges of the side support member 11111B of the body 1111B, and optionally or alternatively, extending parts 11114B extending downwardly from bottom edges of the top support member 11112B. However, it should be understood that an extending part may also be disposed at the bottom edge of the body of the embodiment shown in FIG. 6.

By providing the insertion groove, together with the zipper connection between the body and the bottom support member, the body of the box body can be more securely connected to the bottom support member, thereby avoiding sliding or tilting between the body and the bottom support member.

Referring to FIGS. 10 to 13, FIG. 10 shows a bottom perspective view of a carrier according to a first aspect of the present disclosure, FIG. 11 shows a perspective view of a fixing base assembly 1200 that is fitted with the carrier 1100 shown in FIG. 10, FIG. 12 shows a perspective view of the carrier mounted to a vehicle by the fixing base assembly 1200, and FIG. 13 shows a perspective view of the fixing strap assembly 1300 shown in FIG. 12.

As shown in conjunction with FIGS. 10 to 11, the bracket assembly 1120 of the carrier 1100 of the first aspect of the present disclosure is disposed below the bottom support member 1112 of the box body 1110, and is capable of being secured to the fixing base assembly 1200 mounted to the vehicle, for example, by engaging the engaging member 1121 of the bracket assembly 1120 with the engaging part 1210 of the fixing base assembly 1200. As a result, the carrier 1100 is secured to the vehicle seat by engaging the connecting device 1220 (e.g., an ISOFIX fixing member) of the fixing base assembly 1200 with a socket disposed on the vehicle. Optionally, as shown in FIG. 11, four engaging parts 1210 may be symmetrically disposed on the fixing base assembly 1200, such that the bracket assembly 1120 is secured to the fixing base assembly 1200 at four engaging points, thereby making the positioning of the two more stable.

In addition, the carrier 1100 may be further secured with a Top Tether connection. As shown in FIG. 12 and FIG. 13, a fixing strap assembly 1300 may also be configured to secure the carrier 1100 to the vehicle. Specifically, the fixing strap assembly 1300 includes a first strap 1310 and a second strap 1320, and the first strap and the second strap may be collectively referred to as strap bodies. In an example, an end of the first strap 1310 may be configured to be connected to a corresponding anchoring position (such as a Top Tether interface) above or on top of the vehicle seat by means of a connecting device 1340 provided thereon (such as a Top Tether fastener), and the other end is connected to an end of the second strap 1320. Accordingly, the other end of the second strap 1320 may be connected directly (e.g., fixedly connected to the bracket assembly 1120 of the carrier 1100 in a

wrapped manner), or detachably connected by a connecting device 1330 (e.g., a LATCH fastener) to another corresponding anchoring position on the carrier 1100 and/or the vehicle seat. In this example, two second straps 1320 may be provided, both of which are connected to the other end of the first strap 1310. Optionally or alternatively, the second straps 1320 may be configured as a strap folded in two for use, e.g., the strap passes through an associated connecting member (e.g., an annular element, etc.) disposed at the other end of the first strap 1310 to form an end of each of the second straps 1320 and each of two ends of the strap forms the other end of each of the second straps 1320 that is connected to the carrier 1100 and/or vehicle seat. Certainly, the fixing strap assembly 1300 of the present disclosure is not limited to the structure described above. Furthermore, an adjuster 1350 (also referred to as an "adjusting part") may be further provided, which is disposed on the second straps 1320 and/or the first strap 1310 and configured to adjust a length of the second straps 1320 and/or that of the first strap 1310. In another example, a connecting device 1340 (e.g., a Top Tether fastener) may be disposed at an end of the first strap 1310, and a connecting device 1330 (e.g., a LATCH fastener) may be disposed at the other end of the first strap 1310. An end of each of the second straps 1320 may be movably disposed on the first strap 1310 by the adjuster 1350 (configured to adjust a length of the second straps 1320), and another connecting device 1330 is disposed at the other end of each of the second straps 1320. Correspondingly, as shown in FIG. 37C, the outward periphery on each of two sides of the bottom support member 1112 is provided with two connecting parts 11122 configured to be connected with the connecting device 1330.

When the carrier 1100 is to be secured to a vehicle seat, as shown in an assembly diagram of FIG. 12, after the carrier 1100 is secured to the vehicle seat by the fixing base assembly 1200, the two connecting devices 1330 of the fixing strap assembly 1300 may also be connected to the two connecting parts 11122 on one side of the bottom support member 1112, respectively, and another end of the fixing strap assembly 1300 (i.e., the connecting device 1340 of the first strap 1310) passes through the carrying handle 11115 disposed on the top side of the carrier 1100 to be connected with a corresponding interface (e.g., a Top Tether interface) disposed on the vehicle, thereby further limiting the lateral sliding, tilting, etc. of the carrier 1100, so as to more firmly secure the carrier 1100.

Furthermore, referring to FIGS. 14 and 15, FIG. 14 shows a perspective view of the wheeled moving device 1400 fitted with the carrier 1100 shown in FIGS. 10, and FIG. 15 shows a perspective view of the carrier 1100 mounted to the wheeled moving device 1400.

In conjunction with FIGS. 10, 14, and 15, the carrier 1100 may also be locked on the wheeled moving device 1400, such as a stroller, by means of a bracket assembly 1120 disposed thereunder. As shown in FIG. 14, a frame 1410 of the wheeled moving device 1400 includes a front support bar 1411, a rear support bar 1412, and an upper support bar 1413 pivotally connected to each other at a pivot

point 1410a.lower ends of the front support bar 1411 and the rear support bar 1412 are respectively connected with a wheel assembly. In an example, the front support bar 1411 may be a U-shaped structure, the rear support bar 1412 may be formed by two parallel bars fixedly connected by a crossbar, and each of two ends of the front support bar 1411 is pivotally connected to an end of each of the two bars of the rear support bar 1412. In addition, the frame 1410 is further provided with a seat plate 1420 configured to secure the carrier 1100. In an example, the seat plate 1420 may be disposed substantially horizontally by the support frame 1414 at a position below the pivot point 1410a and close to the wheel assembly disposed at the lower end of the front support bar 1411 to allow for a relatively large space above the seat plate 1420, thereby adapting to carriers with different sizes (e.g., of varying heights) of box bodies.

Specifically, when the carrier 1100 is to be secured to the wheeled moving device 1400, the engaging member 1121 (see FIG. 10) of the bracket assembly 1120 can be engaged into the locking member 1422 of the locking structure of the seat plate 1420 to allow the carrier 1100 to be secured to the seat plate 1420 of the wheeled moving device 1400; and when the carrier 1100 is not in use, the engaging member 1121 can be disengaged from the locking member 1422 by pressing an unlocking operation member 1421 disposed on the seat plate 1420 (e.g., exposed from an upper side of the seat plate 1420 as shown in FIG. 14) to cause the locking member 1422 to release the engaging member 1121 (see FIG. 10), so that the carrier 1100 can be detached and the frame 1410 can be folded to stow the carrier 1100 and the frame 1410. Preferably, four locking structures may be symmetrically disposed on the seat plate 1420 for more secure positioning between the carrier 1100 and the wheeled moving device 1400.

Certainly, it should be noted that the seat plate 1420 may also be disposed at other positions (e.g., at different heights) of the frame 1410, e.g., a position near or higher than the pivot point 1410a by means of the first connecting component 1415 (with one end thereof being connected to the upper support bar 1413) and a second connecting component 1416 (with one end thereof being connected to the front support bar 1411) as shown in FIG. 14, and the present disclosure is not limited thereto.

The second aspect of the present disclosure also provides carriers capable of being mounted on vehicle seats and/or wheeled moving devices.

Referring to FIGS. 16 to 18, FIG. 16 shows a box body 3110 of a carrier according to a first embodiment of the second aspect of the present disclosure, FIG. 17 shows an exploded perspective view of the box body 3110 shown in FIG. 16, and FIG. 18 shows a perspective view of the body 3111 of the box body 3110 shown in FIG. 17.

As shown in FIG. 16 and FIG. 17, a carrier of an embodiment of the present disclosure includes a box body 3110. The box body 3110 includes a body 3111 and a bottom support member 3112. The

member 32112 to be folded in various attitudes relative to the side support member 32111. In this way, when the body 3111 is folded, since the first sheet-like member 31112a and the third sheet-like member 31112c of the upper support member 31112 (and the second window covering 3117a provided thereon) have flexible structures, the part of the upper support member 31112 separated from the side support member 3111 can be pulled between the first sub-support member and the second sub-support member 31111b of the side support member 31111, such that the second sheet-like member 31112b of the upper support member 31112 (i.e., the top surface of the body 3111) can be placed parallel to the first sub-support member 31111a and/or the second sub-support member 31111b of the side support member 31111, and further, the sheet-like members on the two sides of the upper support member 31112 (i.e., the first sheet-like member 31112a and third sheet-like member 31112c) can be folded inwardly with respect to the middle sheet-like member (i.e., the second sheet-like member 31112b), so as to reduce the volume of the upper support member 31112 when folded as much as possible, with reference to FIG. 22 for the folded structure.

Further, referring to FIGS. 23 and 24, the bottom support member 3112 and the cushion 3101 disposed in the bottom support member 3112 may be placed in the folded body 3111 (e.g., between the first sub-support member 31111a and the second sub-support member 31111b), and then the first sub-support member 31111a and the second sub-support member 31111b may be further brought close to each other, thereby minimizing the folded volume of the entire box body 3110 (see Figure 24).

Referring to FIGS. 25 to 27, FIGS. 25 and 26 show a box body 3210 of a carrier according to a second embodiment of the second aspect of the present disclosure from different angles, respectively, and FIG. 27 shows another perspective view of the box body 3210 shown in FIG. 25, with a window 3217 on a side of the box body 3210 being opened.

As shown in FIG. 25, similar to the box body 3110 in the aforementioned embodiment, the box body 3210 of the carrier of this embodiment includes a body 3211 and a bottom support member 3212. The body 3211 forms four side surfaces and a top surface of the box body 3210, the bottom support member 3212 forms a bottom part of the box body 3210, and the body 3211 is detachably connected and covered on the bottom support member 3212 to form an accommodating space for carrying a pet together with the bottom support member 3212. Specifically, in conjunction with FIGS. 25 and 26, the body 3211 includes a first support member and a second support member, such as a side support member 32111 and an upper support member 32112. The side support member 32111 includes a first sub-support member 32111a and a second sub-support member 32111b, which form two opposite sides of the body 3211, respectively. The upper support member 32112 includes a first sheet-like member 32112a, a second sheet-like member 32112b, and a third sheet-like member 32112c connected together. The second sheet-like member 32112b forms a top surface of the body

3211. The first sheet-like member 32112a and the third sheet-like member 32112c form at least a part of the other two opposite sides, respectively.

In an example, the side support member 32111 and the upper support member 32112 may be at least partially detachably connected to each other by at least one second connection assembly. For example, a part of the first sub-support member 32111a and a part of the second sub-support member 32111b of the side support member 32111 may be fixedly (e.g., non-detachably) connected to two sides of the upper support member 32112, respectively, and the other respective parts of the two may be detachably connected to the upper support member 32112 by the second connection assembly. Specifically, each of the second connecting assemblies may include a third connecting member 32118 and a fourth connecting member 32119 detachably connected to each other. The third connecting member 32118 is disposed on a side edge of the upper support member 32112 and extends along a part of the side edge, and the fourth connecting member 32119 is disposed at a corresponding position of a top edge of the side support member 32111 (i.e., the first sub-support member 32111a or the second sub-support member 32111b). Optionally, the third connecting members 32118 disposed on the two side edges of the upper support member 32112 are disposed symmetrically, i.e., the two second connecting assemblies are provided symmetrically with respect to the box body 3210.

In addition, one or more sides of the body 3211 may be provided with windows for viewing the pet inside the box body 3210 and/or providing an opening for the pet to enter and exit the box body.

In an example, as shown in FIG. 25, the side support member 32111 of the body 3211 may be provided with a first window 3216. For example, the first window 3216 may be disposed on the first sub-support member 32111a and/or the second sub-support member 32111b of the side support member 32111, i.e., corresponding to a front side surface and/or a rear side surface of the box body 3210 when it is placed in a vehicle, and is configured to be covered by a first closure member, e.g., a first window covering 3216a. Optionally, the first window covering 216a may be fixedly connected to the first window 3216 or detachably connected to the first window 3216. The first window covering 216a may be made of a transparent material and/or a breathable material, e.g., a breathable mesh fabric, to allow for air circulation inside and outside of the box body 3210, as well as for a user to view the interior of the box body 3210.

In an optional or alternative example, as shown in FIGS. 25 and 26, a second window 3217 may be disposed at a position of the upper support member 32112 located on a side of the box body 3210, and the second window 3217 is configured to be covered by a second closure member, e.g., the second closure member may include a second window covering 3217a and/or a side door 3217b. At least a part of the second closure member is detachably connected to the body 3211. In an example, a part of the second closure member may be fixedly connected to the body 3211, e.g., to at least a part of a

be provided with a bracket assembly 3413 configured to mount the box body 3410 of the carrier to a fixing base assembly (not shown) or an associated fixing device on a moving device. The bracket assembly 3413 includes an engaging member 34131, which is engaged with a corresponding engagement structure disposed on the moving device. In an example, the engaging member 34131 may be configured as an annular structural member, and arranged to be spaced from a bottom part (i.e., a bottom surface) of the bottom support member 3412. A center of the engaging member 34131 corresponds generally to a center of the box body 3410 in both a width direction of the box body 3410 (the first direction D33) and a length direction of the box body 3410 (the second direction D34). The bracket assembly 3413 may further include four first connecting brackets 34132 disposed on the engaging member 34131 to be connected to the bottom part of the box body 3410, such that the engaging member 34131 is spaced apart from the bottom support member 3412. These first connecting brackets 34132 are spaced apart from each other by a certain distance, such as respectively disposed at four corners of the engaging member 34131, so as to provide a balanced and stable support for the box body 3410. However, it should be understood that the engaging member of the present disclosure is not limited to the above-mentioned shape, and the first connecting bracket 34132 is not limited to the above-mentioned quantity or positions. Optionally or alternatively, the engaging member 34131 may be configured as two rod members disposed parallel to each other. Optionally or alternatively, only two first connecting brackets 34132 may be provided, and the two first connecting brackets 34132 are disposed diagonally. In other examples, the number of the first connecting brackets 34132 may also be three, five, etc.

Additionally, the bracket assembly 3413 may be further provided with a strap guiding mechanism 34133, which is configured to guide and/or restrain a restraining strap (not shown in FIG. 36, see FIG. 30) of a fixing strap assembly to pass therethrough. As shown in FIG. 35, two strap guiding mechanisms 34133 may be provided, which are disposed on the bottom part of the bottom support member 3412. In an example, the two strap guiding mechanisms 34133 may be disposed between the engaging member 34131 and the bottom surface of the bottom support member 3412, respectively. Optionally, the two strap guiding mechanisms 34133 may be located at a centerline 3M1 in the width direction of the box body 3410 (the first direction D33), and further, symmetrically disposed with respect to the box body 3410 along a centerline M32 in a length direction thereof (the second direction D34). By this configuration, regardless of an orientation in which the carrier is secured to the vehicle seat or the moving device (e.g., forward or rearward), threading paths of the restraining straps through the strap guiding mechanisms 34133 are the same, thereby avoiding misthreading and misuse. Specifically, the strap guiding mechanisms 34133 may be clamping members, locking members, etc., which are configured to allow the restraining strap to pass

WHAT IS CLAIMED IS:

1. A carrier, wherein

the carrier comprises a body and a bottom support member, the body is detachably connected to the bottom support member by means of at least one first connection assembly, and forms a box body with an accommodating space together with the bottom support member;

the body comprises a first support member and a second support member, and one part of the first support member is non-detachably connected to the second support member and the other part of the first support member is detachably connected to the second support member by at least one second connection assembly; and

when the body is separated from the bottom support member and the other part of the first support member is separated from the second support member, the first support member and/or the second support member are capable of being folded to change the box body from an unfolded state to a stowed state.

2. The carrier according to claim 1, wherein

the at least one first connection assembly comprises a first connecting member and a second connecting member detachably connected to each other, the first connecting member is disposed on the body, and the second connecting member is disposed on the bottom support member; and/or

the at least one second connection assembly comprises a third connecting member and a fourth connecting member detachably connected to each other, the third connecting member is disposed on the first support member, and the fourth connecting member is disposed on the second support member.

3. The carrier according to claim 1, wherein

the first support member is a side support member and forms two side surfaces of the body; and

the second support member is an upper support member and forms a top surface and at least a part of the other two side surfaces of the body.

4. The carrier according to claim 3, wherein one part of the side support member is non-detachably connected to the upper support member, and the other part of the side support member is detachably connected to the upper support member; and

after the other part of the side support member is separated from the upper support member, the side support member and the upper support member are capable of being folded relative to each other.

5. The carrier according to claim 4, wherein the upper support member comprises a first sheet-like member, a second sheet-like member and a third sheet-like member, and each of the first sheet-like member and the third sheet-like member has a flexible structure;

after the other part of the side support member is separated from the upper support member,

the upper support member is capable of being folded relative to the side support member by the flexible structures of the first sheet-like member and the third sheet-like member and stowed in the side support member.

6. The carrier according to claim 4, wherein

the side support member comprises a first sub-support member and a second sub-support member, each of which has a bottom edge extending substantially horizontally and a top edge in an arched shape; and

the first sub-support member and the second sub-support member are integrally formed with a connecting piece to form the side support member, such that the bottom edges of the first sub-support member and the second sub-support member form a bottom edge of the body together with a bottom edge of the connecting piece, and the bottom edge of the body is detachably connected to the bottom support member.

7. The carrier according to claim 6, wherein

one part of the first sub-support member and one part of the second sub-support member are non-detachably connected to the upper support member, respectively;

the other part of the first sub-support member and the other part of the second sub-support member are detachably connected to the upper support member by the at least one second connection assembly, respectively; and

the connecting piece has a flexible structure such that the first sub-support member and the second sub-support member are capable of approaching each other to be folded after the other part of the first sub-support member and the other part of the second sub-support member are separated from the upper support member.

8. The carrier according to claim 7, wherein the at least one second connection assembly comprises:

a connecting member disposed at a top edge of the first sub-support member or the second sub-support member and extending along a part of the top edge; and

a further connecting member disposed at a side edge of the upper support member and extending along a part of the side edge,

wherein the connecting member and the further connecting member are disposed in correspondence with each other and detachably connected to each other, such that the other part of the first sub-support member and the other part of the second sub-support member are detachably connected to two side edges of the upper support member, respectively.

9. The carrier according to any one of claims 1 to 8, wherein any sides of the body are provided with an impact resistant material.

10. The carrier according to claim 9, wherein the impact resistant material is disposed on at least one side of the body near a vehicle door when the carrier is placed on a vehicle seat.

11. The carrier according to claim 9, wherein the impact resistant material is configured as a

separate component.

12. The carrier according to any one of claims 1 to 8, wherein one or more side surfaces of the body are provided with a window, and each of the windows is provided with a closure member configured to close and/or shield the window.

13. The carrier according to claim 12, wherein a part of the closure member is non-detachably connected to the body.

14. The carrier according to claim 13, wherein at least one closure member is provided with an impact resistant material.

15. The carrier according to claim 14, wherein the impact resistant material is integrally formed with the closure member.

16. The carrier according to claim 14, wherein the impact resistant material is separately formed and fixedly connected to the closure member.

17. The carrier according to claim 12, wherein the closure member is a flexible fabric and a retaining member is disposed on an upper part of the closure member to maintain the closure member opening.

18. The carrier according to any one of claims 1 to 8, wherein an extending part extending downwardly is disposed at a bottom edge of the body, and is configured to insert into a corresponding insertion groove disposed in the bottom support member.

19. The carrier according to any one of claims 1 to 8, wherein the carrier is provided with at least one strap guiding mechanism, and the strap guiding mechanism is disposed on at least one of a side part, a bottom part and a top part of the carrier and configured to guide a strap body of a fixing strap assembly to pass therethrough, so that the fixing strap assembly is bonded to the carrier at at least one position.

20. The carrier according to any one of claims 1 to 8, wherein the bottom support member is provided with at least one connecting part engaged with a fixing strap assembly to secure the carrier to a vehicle seat.